

VIDEO SOLUTIONS



INTERNET

CONVISION TECHNOLOGY

Convision Safe1

Version 1.0
English



Convision Safe1

User Manual

Version 1.0

September 2000

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Basic Information

You can download the most current version of Convision Safe1 as well as the current version of the Convision Safe1 Manual as a pdf file from the Convision Homepage
www.convision.de.

We recommend starting Convision Safe1 with the Sun Virtual Machine 1.2.
(see Chapter 2.2 and Appendix A or Appendix B)

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1 Introduction

Convision Safe1 is a program developed specially for evaluation of the image sequences taken by a Convision V610/611.

With Convision Safe1 you have a direct link from a computer or notebook to Convision V610/611 via LAN or to your Convision V610/611 via ISDN. You can view image sequences stored on its hard disk, select individual scenes quickly and easily and load them on your computer.

You can then take your time viewing the material while Convision V610/611 continues operation.

In order to store important scenes permanently, Convision Safe1 makes up a complete CD layout on your computer with the image sequences you select. This allows you to make CDs as proof simply with a CD recording program, which can then be viewed with a Web Browser or Report-Viewer.

CD layouts made up with Convision Safe1 contain, in addition to the stored image sequences, all program sections required for viewing the CD's with a browser. The "Report-Viewer" is also present in the layout directory. Images can be viewed with this viewer and stored or printed out as single JPEG files.

Convision Safe1 is provided in German, English and Spanish. When starting the program for the first time, select one of the languages.

2 System Prerequisites

2.1 Hardware

Prerequisites for connecting to Convision V610/611 over a LAN

Convision Safe1 does not require any special hardware, however, a computer with Ethernet connection is required to complete the link to Convision V610/611 .

Prerequisites for link to Convision V610/611 via ISDN

Convision Safe1 does not require any special hardware, however, a computer with ISDN hardware as well as an ISDN connection is required to complete the link to the Convision V610/611.

2.2 Software

Convision Safe1 is a program made up in the programming language Java and therefore runs independent of any specific platform, i.e. it can be used with various operating systems such as Windows 95/98/NT, Unix, Linux etc.

However, as all Java programs, it requires a JRE (Java Runtime Environment), a software environment which allows Java programs to be executed. The primary constituent of the JRE is the JVM (Java Virtual Machine).

The JRE is already contained in the newer versions of Microsoft Internet Explorer (as of Version 5.0).

Note: When an older version of Microsoft Internet Explorer (<5.0) is updated, the JRE is not installed automatically.

The JRE from Sun Microsystems can be downloaded at no cost from their home page.

For Linux operating systems presently under:

<http://java.sun.com/products/jdk/1.2/jre/download-linux.html>

For Windows 95/98/NT presently under:

<http://java.sun.com/products/jdk/1.2/jre/download-windows.html>

A JAVA compatible browser such as Netscape Communicator (min. 4.x) or Microsoft Internet Explorer (min. 4.x) is required to view the downloaded image sequences or recorded CDs.

3 Links to Convision V610/611

Convision Safe1 can create a connection to the Convision V610/611 to be evaluated via

- ◆ LAN
- ◆ direct connection with Cross-Connect cable
- ◆ ISDN.

For operation in a LAN, it is important that the IP addresses of Convision V610/611 and the computer with Convision Safe1 are from the same sub-network or that the various sub-networks are connected by a router.

This is also necessary for correct connection between the two units using a Cross Connect cable so that these form a network with two stations. The sub-network is defined over the network display: Please read the applicable chapters in the Convision V600 Series Manual on assignment of IP addresses.

If the link to the Convision V610/611 is to be completed via ISDN, it is necessary to configure a remote data transmission connection. If necessary read the applicable chapters in the Convision V600 Series Manual. After completing the connection, enter the IP address 10.0.0.10 permanently set in the Convision V610/611 for ISDN operation.

4 Working with Convision Safe1

After successful installation (see Appendix A or Appendix B), first select the language for your Convision Safe1. The following window will then appear on the monitor.



Fig. 1: Start window for 1st start

It is subdivided into 3 parts whereby the operating sequence is always from left to right. The original image data is on the left, followed by viewing and selection of the material in the middle. The data to be downloaded is listed on the right.

4.1 Survey

The following configurations are required when Convision Safe1 is started for the first time:

- ◆ Generation of CD layout
- ◆ Selection of Convision V610/611 and its connection parameters
- ◆ Selection of browser

After making these configurations, you can work with Convision Safe1 in the following steps:

- ◆ Connect with Convision V610/611
- ◆ Select partition, camera and layout
- ◆ Display of recorded image sequences
- ◆ Definition of scenes for downloading
- ◆ Downloading data to the computer
- ◆ Starting a browser or Report-Viewer for viewing scenes

These steps are described in detail in the following chapters.

4.2 Generating a CD Layout

Before you can work with Convision Safe1 for the first time, you are requested to create a CD layout.

The CD layout is a directory which Convision Safe1 stores in your computer. It automatically contains all data required for later viewing.

To record a CD simply transfer all of the images and files present in the layout to the recording program. You require only one browser or the Report-Viewer to view the images (see Chapter 7).

Note: If you only intend to store the images in your computer, it is not necessary to copy a Report-Viewer to each CD layout.

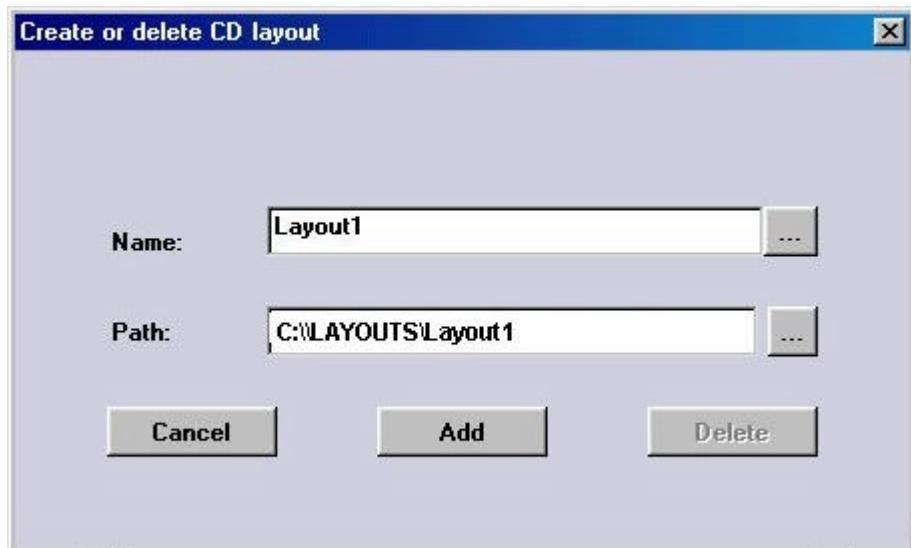


Fig. 2: Creating CD layout

You can create a CD layout as follows:

1. If you are not working with Convision Safe1 for the first time and the input window is not displayed, select "CD Layout" under processing in the menu list.
2. Enter a name for your layout.
3. Create the layout directory. For this purpose enter a path directory in the "Path" line or call a window for saving by clicking on the button at the right. Select a directory, enter the name of the layout as a new directory and click "Save".
4. Click "Add", a new window appears with the question: "Should the Report-Viewer be copied to the CD layout?"
5. Select yes or no. The CD layout will be created accordingly.

After creating at least 1 layout you can complete a connection to a Convision V610/611.

A drop-down menu with all CD layouts present is visible at the bottom right in the Convision Safe1 window. You can select one of these from the list by clicking on it.

If you want to create another CD layout or delete a present layout, find the entry CD layout under "Processing" in the window menu bar. This also gives you the entry mask for creating or deleting.

Note: You cannot work with Convision Safe1 without at least one existing layout, for this reason you are requested to create a new layout after deleting the last layout.

4.3 Connection to a Convision V610/611

After ensuring that a connection to your Convision V610/611 is possible, see Chapter 1, click the "Connect" button . A window will appear for the entry of the connection parameters.

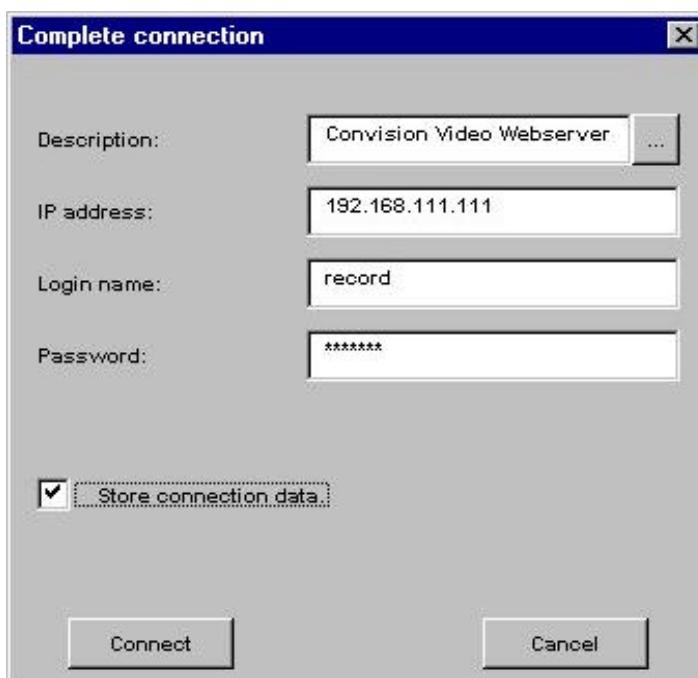


Fig. 3: Completing connection

1. Description: Enter a name for the Convision V610/611 or select a Convision V610/611 already entered from the selection list.
2. Enter the IP address for the Convision V610/611. If the box is to be connected via ISDN enter the IP address 10.0.0.10 which is already set in the Convision V610/611.
3. If you have protected the recorder area during configuration of the Convision V610/611 with a password, enter the login name "record" or, if assigned, "admin".
4. Then enter the appropriate password.
5. If the option "Save connection data" is activated, Convision Safe1 stores the IP address and the login name for the next time the program is called.
6. Click "Connect" to complete the connection.

If the login name or the password is incorrect, a window with an error message appears.

If the recorder area in the Convision V610/611 is not protected, the password data entered is ignored.

4.4 Evaluation of Image Sequences

When the connection has been completed, the first image stored for the first connection camera position in the 1st partition now appears in the main window.



Fig. 4: Convision Safe1 window

You can now select between all partitions defined already containing images and the connected cameras in a drop-down menu in the left section of the main window. The cameras have the names assigned in the Convision V610/611 or the default names, e.g.: Partition 1, "Cashier" or Partition 3, "Camera2"

If the partition selected is a long term recording type, the beginning and end time as well as the number of images recorded is indicated at the top.

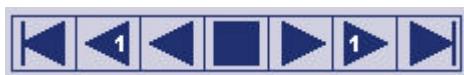
With event controlled partitions, all events recorded are listed with beginning and end time as well as the number of images. You can select one of these events for viewing by clicking on it. It is then displayed with a black background.

4.4.1 Viewing

The images can then be viewed in individual steps and at various speeds, forwards or backwards, in the middle section of the main window.

Note: The viewing speed depends on the speed at which the pictures were made!

The function of the individual viewing buttons are as follows:



1 2 3 4 5 6 7



8 9 10 11 12 13 14

- 1 – To beginning
- 2 – One image back
- 3 – Single speed back.
- 4 – Stop
- 5 – Single speed forward
- 6 – One image forward
- 7 – To end

- 8 – 8-times speed back
- 9 – 4-times speed back
- 10 – Double speed back
- 11 – Continuous viewing, single speed
- 12 – Double speed forward
- 13 – 4-times speed forward
- 14 – 8-times speed forward

The scroll bar below the image serves for chronological positioning of the display in the recorded image sequence. It can be moved to various positions with the button on the mouse depressed, a time display at the bottom left in the status bar aids in positioning to a precise time.

A time can be defined precisely by entering the time in a text field with the "Position" button in the button bar above the image.

Viewing Options

Various options for viewing can be activated by clicking on the image with the right mouse button.

- ◆ Show / hide time – the date and time the picture was taken are shown or hidden at the bottom in the image
- ◆ Turn horizontally – The image is displayed as a mirror image, the image can be returned to the original position by clicking again.
- ◆ Turn vertically – The image is displayed upside down, it can be returned to the original position by clicking again.

These two options can be advantageous for camera positions deviating from the normal perspective.

- ◆ Turbo graphics, fast graphics, medium graphics and slow graphics – Errors can occur in displaying the image sequences depending on the capacity of the video card installed on your computer.
In this case, select the next slower graphics option. Repeat this until you obtain error-free display of the image sequences. The default settings is always "turbo-graphics", the fastest version.

4.4.2 Printing

To print out the current image select the entry "Print" in the "File" menu in the menu bar.

Then enter a name or description for the image in the window which appears. To print out the image without a description, click "Quit". Then, select a printer and the settings in the printer menu and start the printout by clicking "OK".

4.4.3 Selecting Scenes for Downloading

Downloading all of the images stored in the Convision V610/611 can require a great deal of time, particularly via ISDN. Moreover, it is not necessary to store all image material which does not have any relevant scenes .

In order to avoid having to download all of the image material stored you can select important individual scenes.

There are different possibilities for this purpose:

Setting Beginning and End

1. Start viewing at any desired speed or define a fixed time.
2. Click the button "Set start" to define the beginning of a scene.
3. Continue viewing the images until the scenes important for you are completed.
4. Click the button "Set end" to define the end of a scene
5. The scene is indicated in the status display in the right section of the Convision Safe1 window.

Note: If "Set start" is clicked a number of times, the last time selected is valid in each case.

Selecting Time Period

If you already know the time period to be downloaded you can define it without viewing the image material.

1. Click the button "from ...to..." .
2. The window "Select time period" opens. A time period from the momentary position in the sequence of images to the end is recommended.
3. You can define any other period of time by writing over the time displayed.
4. Confirm by clicking "OK"

5. The period of time marked is indicated in the status display on the right.

4.4.4 Status Display

The status display indicates all actions made to date for the selected layout.

Each action consists of a camera symbol with the number of the camera, the name of the scene and the status. The name initially consists of the starting time and the length in seconds. The name can be changed by clicking with the right mouse key and selecting "Rename event" in the pop-up menu.

The colored camera symbols indicates the momentary status of a selected scene:

- ◆ yellow Scene marking in progress, end still has to be set
- ◆ blue Scene marked for downloading
- ◆ white Downloading in progress
- ◆ green Downloading completed
- ◆ red Error

All scenes whose download has been completed are then located in the selected layout directory.

4.4.5 Renaming and Deleting Scenes

The scenes listed in the status display can be renamed or deleted, before as well as after downloading.

1. For this purpose click the desired scene with the right mouse key. A pop-up menu then appears from which you can select between
 - ◆ Rename event
 - ◆ Delete event
 - ◆ Delete everything - Deletes all scenes in the layout
 2. Click the "Update" button in the button bar below the image to store the changes.
- Note:** If a scene is renamed outside of the Convision Safe1 program, you see the changed name in the status messages only after the program is started again.

Downloading Image Sequences

All of the scenes indicated as "Marked" (blue camera symbol) in the status display can be downloaded from the Convision V610/611 to the computer over the link selected by you by clicking the "Download" button. A directory for the data of this Convision V610/611 is created in the layout directory.

An Info window shows you the size of the marked files and the time required for the download.

Calculation of the required time is based on a data transmission rate of

- ◆ 7 Kbytes/sec for ISDN (1 channel)
- or
- ◆ 400 Kbytes/sec in LAN

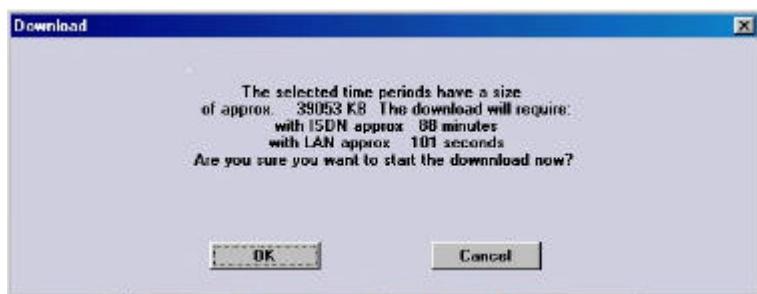


Fig. 5: Downloading data

Click "OK" to start downloading. A percentage figure in the status bar indicates the progress of the downloading process.

Note: Scenes not yet "marked", i.e. whose end point has not yet been defined (yellow camera symbol) are not taken into consideration for downloading, however can still be marked later.

Note: Scenes which were not downloaded properly are marked with "Error". They can be downloaded at a later time depending on the error which occurred (e.g. insufficient storage space).

Terminating Download

During the downloading process the "Download" button changes to "Quit". You can stop the download after a safety question by clicking this button. Then all scenes already marked with "Download completed" are located in the CD layout directory, the others remain marked and can be downloaded or deleted at a later time.

4.4.6 CD layout - Activation of Browser

The browser defined by you is started with the selected "CD layout" as an address when the "CD layout" button is clicked.



Fig. 6: Browser window

Selection of Browser

If you are working with Convision Safe1 for the first time, you will first be requested to select a Web browser after clicking the "CD layout" button.

Then enter the path and start file for a browser or select the folder with the desired file in the folder list.

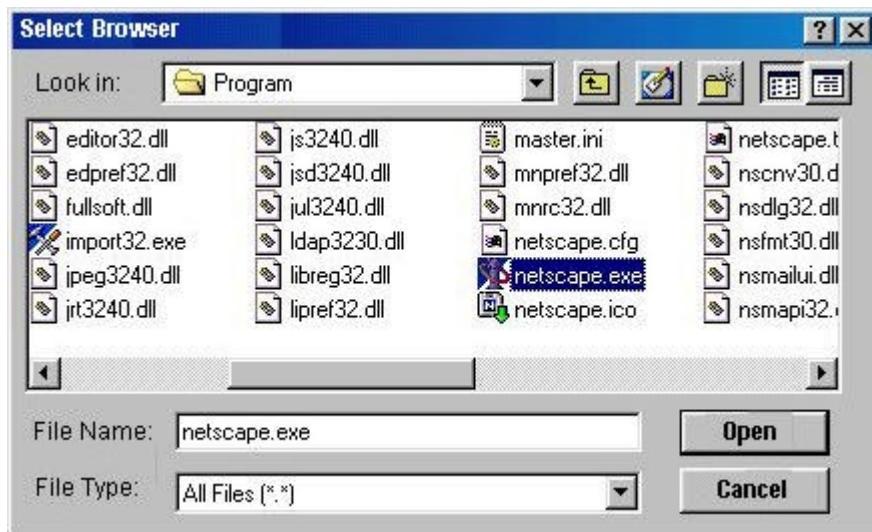


Fig. 7: Selecting browser with Windows

This browser is then opened with the address for the layout selected.

You can change these settings at any time with the menu point "Adapt browser" in the "Processing" menu in the menu bar in the Convision Safe1 window.

5 Viewing Image Sequences with Browser

The layout called in the browser after clicking the "CD layout" button is distinguished by a window with two sections. A directory tree of all scenes downloaded, arranged according to the various cameras, is located in the left section. If the camera names contain special characters which cannot be displayed by the operating system, or if names are not assigned, they are indicated as "Camera1" through "Camera6", otherwise, the name is displayed.

All of the downloaded scenes taken by one camera are displayed, moreover, the scene "all" is available.

"all" - If the size of all stored scenes, totaled, is not greater than 10 Mbytes, an additional scene "all" is present which contains all of the scenes one after another.

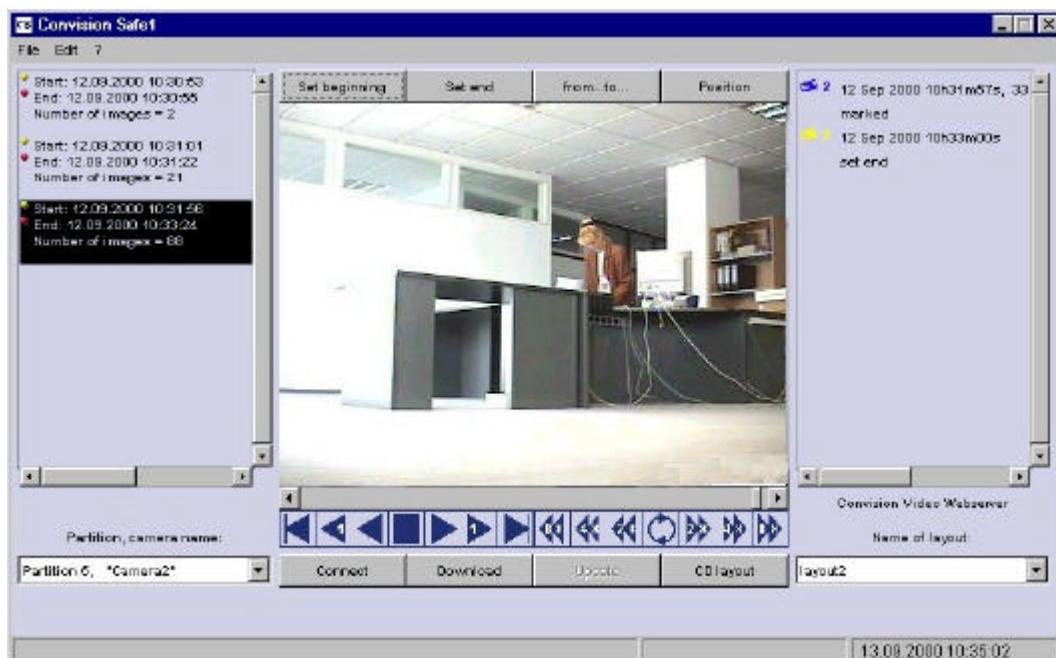


Fig. 8: Browser display

Open the directory by clicking the directory symbols or the "+" symbol. All scenes are provided with a camera symbol and designated with the name assigned previously.

The scene can be viewed by clicking the name. The date and time are always shown on the display.

The image can also be turned vertically or horizontally here by clicking on the image with the right mouse key.

The following buttons are available for navigating within the image sequence:



1 2 3 4 5 6 7

- 1 – To start
- 2 – Single image back
- 3 – Single speed back.
- 4 – Stop
- 5 – Single speed forward
- 6 – Single image forward
- 7 – To end



You can increase the size of the display of individual image cutouts by clicking the zoom in button.



The image can be displayed smaller by clicking the zoom out button.

If only a section of the image is visible due to zooming, the image cutout can be moved by pulling with the mouse button depressed inside the image.

6 Creating and viewing a CD

With Convision Safe1 you can create complete CD layouts on your computer. Each of these is intended for producing a CD. If you want to record a number of layouts on one CD, it is necessary to rename the directories with the data beginning with the second layout.

You can create a CD containing all the components required for viewing the image sequences using any commercially available CD recording program (not included with Convision Safe1). For this purpose, select the entire contents of the layout directory for recording.

Note: *The autorun function must be located in the top level directory on the CD for the CD autorun function to be accomplished under Windows (automatic start after inserting). Therefore, copy only the contents and not the CD layout with the directory onto the CD.*

After inserting the CD into the drive the browser is started up automatically. Read Chapter 5 regarding functions.

If you do not have a browser on your computer or you want to print or store images individually, start the Report-Viewer in the CD layout directory.

7 Working with the Report-Viewer

The Report-Viewer allows you to view the image files downloaded from the Convision V610/611 without a browser, store individual images or entire image sequences as JPEG files and printout individual images.

You can therefore view a CD with stored image sequences even on a computer without a browser or JVM (Java Virtual Machine).

Starting the Report-Viewer

Change to a CD layout directory that contains a Report-Viewer. (see Chapter 4.2)
Start the program in Windows by double-clicking “reportviewer.exe”.

Under Linux/Unix, call the program with “java reportviewer”, if necessary also set the Classpath to “reportviewer.jar”.

“java –classpath reportviewer.jar:\$CLASSPATH reportviewer”

The variable CLASSPATH must have already been properly set.

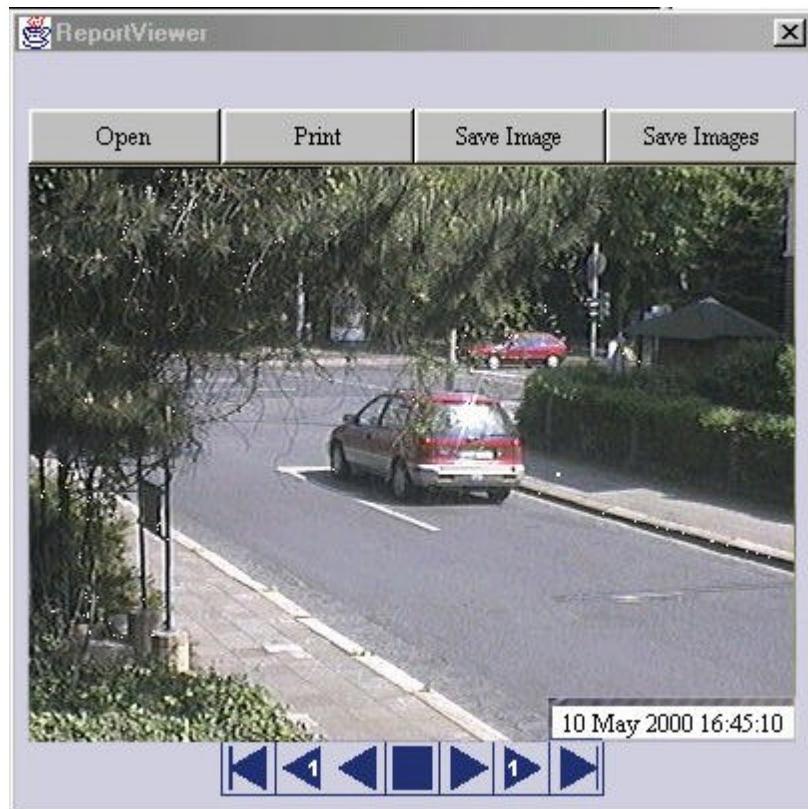


Fig. 9: Report-Viewer

- ◆ Open button

With this button you can open the desired image sequence file. This may be located on a finished CD or in a directory in your computer. Select one of the CD layouts created with Convision Safe1, the image sequences are located here under:

html/Convision V600/<Name of your Convision V610/611>/Camera
<Number>/<Name of scene>

- ◆ Print button

Select this button to print out the image presently displayed. You can give the image a name in the "Description" window which then opens. Then select the printer and options in the printer menu and start printing.

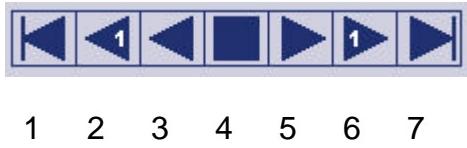
- ◆ Save image button

Click this button to save the current image as a JPEG file. Select a directory in the window which appears. Enter a name for the file and click "Save".

- ◆ Save images button

You can save all individual images in the current scene as JPEG files by clicking this button. Select a directory in the window which appears. Enter a name for the new directory and click "Save". All images in the scene are then stored numbered in Series in the new directory.

The button bar for navigating within the image sequence is also available here below the image:



1 2 3 4 5 6 7

- 1 – To start
- 2 – Single image back
- 3 – Single speed back.
- 4 – Stop
- 5 – Single speed forward
- 6 – Single image forward
- 7 – To end

Appendix A Installation and Program Start under Windows 95/98/NT

a - Installation of JRE

If the Java Runtime Environment has not yet been installed in your computer, it is necessary to install one of the two following JRE's before starting Convision Safe1.

Installation of Sun Java Runtime Environment 1.2.x

After downloading "jre1_2_2-001-win.exe" from the Sun home page to a temporary directory in your computer, start installation by double clicking this file. The JRE will be installed in the directory "C:\Programme\JavaSoft\JRE\1.2."

Installation of Microsoft Java Runtime Environment

If Microsoft Internet Explorer 5.x or higher is already installed on your computer, the Microsoft JRE should already be present.

You can recognize this with the presence of the file "JVIEW.exe" in the directory C:\Windows under Windows 9x or in C:\winnt under Windows NT.

You can download the latest version of the Microsoft Internet Explorer presently under <http://www.microsoft.com/windows/ie/> or order a CD version.

When updating an older version of the Microsoft Internet Explorer, installation must be accomplished in a user defined manner (selection: Minimum installation or adapt browser) and Microsoft Virtual Machine must be selected in the selection list which then appears.

b - Downloading and installing Convision Safe1

You can download the latest version of Convision Safe1 at <http://www.convision.de/>

Start the installation by double-clicking the file
"VSinstall.exe".

Select the language for the installation program. Click the "Next" button.

Select the folder in which the files are to be stored. Default is C:\Program\ConvisionSafe. Click the "Next" button.

Select whether a short-cut should be created on your desktop. Start menu/Programs/ConvisionSafe is set by default. Click the "Next" button.

If there is more than one virtual machine on your computer (VM or JRE), you can now choose one of them. We recommend Sun VM 1.2. If VM is not located in the search path, you can search for it manually. If VM is not found you will not be able to continue the installation.

Click "Install" to carry out the installation.

Complete the installation process by clicking the "Done" button.

c - Convision Safe1 Program Start

The entry Convision Safe is now located at the start / program, click to start the program.

As an alternative, you can start Convision Safe1 by double-clicking the file
"ConvisionSafe.exe"
in the Convision Safe directory.

Appendix B Installation under Unix/Linux

a - Installation of JRE

A JRE is already contained in the JDK package (Java Development Kit) from various Linux distributors. If you do not already have this on your computer, you can re-install the appropriate package from your installation CD.

If a JRE is not present here either, you can download it from the Sun Homepage.

b - Downloading and installing Convision Safe1

You can download the latest version of Convision Safe1 at www.convision.de.

To install Convision Safe1, start your system's graphical interface. Open a terminal window and the directory in which you copied the installation file. Execute the file with
“./VSinstall.bin”.

If more than one JVM is present on your computer, you will be requested to select one. Enter the number of your choice, and press "Enter." This starts the installation program.

Select the language for the installation program. Click "OK".

Select a directory in which the Convision Safe files are to be stored. Click the "Next" button.

Select the directory in which you would like to create a link to Convision Safe. Click "Install".

Convision Safe will now be installed. Click "Done" to complete the installation.

c - Convision Safe1 Program Start

To start Convision Safe1 open a terminal window, change to the Convision Safe directory and enter :

“java ConvisionSafe”

or “./ConvisionSafe”

or start Convision Safe from the set link.

Appendix C FAQ – Frequently asked Questions

Why don't I get a connection to the Convision V600 Series in LAN ?	<p>Is the Convision V600 Series switched on and connected to LAN?</p> <p>Is TCP/IP installed and configured on the computer?</p> <p>Are login name and password correct?</p> <p>Are the IP addresses for the computer and Convision V610/611 in the same sub-network?</p>
Why don't I get a connection to the Convision V610/611 over ISDN?	<p>Is the Convision V610/611 switched on?</p> <p>Is the MSN number for the Convision V610/611 correct?</p> <p>Is the connection busy?</p> <p>Are login name and password correct?</p> <p>It may be necessary to dial the prefix "0" or "00" for a connection over a telephone system.</p> <p>Tip: Are Convision V610/611 and computer connected to the same S₀ bus? Try a different S₀ bus.</p> <p>Windows NT only: Check whether RAS and data remote transfer network are correctly installed.</p>
The status display shows a much higher number of seconds than was marked.	If the recording was interrupted on a partition the difference between the beginning and end time does not correspond to the recording time.
Why can't I use some symbols such as "/" or ":" in scene names?	Every operating system has symbols which cannot be used in names of files or directories.

Why is the password entered in Convision Safe1 ignored when connecting?	The login name and password relate to the password stored when the Convision V610/611 was configured.
When entering various Convision V610/611 for making a connection, the names are not stored.	The name Convision V610/611 is not saved until the first download and will not appear in the selection list until then.
I cannot print images on every printer while running Windows 98.	This is due to a Java bug which Convision has no control over. As soon as the bug is fixed, an update will be made available.
Only individual images, however not image sequences, are shown without errors.	On computers with slow video cards, the images may not be displayed quickly enough. Select a slower display setting under "Display options".

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